

To whom it concerns

Date: 06/12/2023
Subject: LEED certification and recycled content

The following information can be used for LEED enquiries that require recycled content information to be supplied in accordance with ISO 14021:2016 (Environmental labels and declarations: Self-Declared environmental claims -Type II environmental labelling).

ISO14021:2016 describes recycled content as the percentage of recycled material in a product and that this value should be calculated in accordance with the following formula.

$$X(\%) = \frac{A}{P} \times 100$$

Where:

X is the recycled content, expressed as a percentage
A is the mass of recycled material
P is the mass of product

In the evaluation of the mass of recycled material (*A*), the standard describes two types of recycled material that can be included within the calculation of recycled content, and these are described as follows:

Pre-consumer material

Material diverted from the waste stream during a manufacturing process. Excluded is reutilization of materials such as rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it.

Post-consumer material

Material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose. This includes returns of material from the distribution chain.

In the financial year 2022/23, Tata Steel Netherlands TSN produced 6.16 million tonnes of crude steel, at its steel manufacturing site in IJmuiden, and recycled 1.082 million tonnes of steel scrap. *

For crude steel, which is available as a product in the form of steel slab, this equates to an average recycled content, over the year, of 17.4% which can be subdivided in to pre- and post-consumer recycled content as follows:

Pre-consumer recycled content	7.4%
Post-consumer recycled content	10.2%
Total recycled content	17.6%

Pre-consumer recycled material includes internal scrap which is generated from internal process after steelmaking such as from rolling mills. It excludes cold pig iron, which is an intermediate raw material, for steelmaking.

Post-consumer recycled material includes material which is generated by the end users of the steel product and includes material from within the distribution chain. This is also material which is purchased externally.

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*all data presented in this certification are taken from our TSN Sustainability Report FY22/23 <https://www.tatasteelnederland.com/en/Green-steel-and-sustainability>